Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-03-06-02** **Date: 09-03-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains at 7th cross in Santosh Nagara and other roads in Ward no.13 Shettyhalli Sub division.
Agency	:	Sri. Nischal .K Lakshman, No.3667, 5th cross, 'B' block, Gayatrinagara, Bengaluru-21
Customer's Reference	:	EE/DD/WO/246/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-18
Sample ID No	:	2018-03-06-02 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	07-03-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.94	_
2	Finess by Air permeablity method (m^2/kg,Min)	289.6	225m^2/kg, Min
3	Density (gm/cc)	3.13	_
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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All information furnished by Customer/Representative

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Samples will be disposed after 90 days from the date of issue of test certificate

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬೆಸ್ಕಾಂ. ರಸ್ತೆ, ಮಹಾಲಿಂಗಪುರ, ಬೆಂಗಳೂರು

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-03-06-02** **Date: 04-04-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains at 7th cross in Santosh Nagara and other roads in Ward no.13 Shettyhalli Sub division.
Agency	:	Sri. Nischal .K Lakshman, No.3667, 5th cross, 'B' block, Gayatrinagara, Bengaluru-21
Customer's Reference	:	EE/DD/WO/246/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-18
Sample ID No	:	2018-03-06-02 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	07-03-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.0N/mm^2	Not less than 53 N/mm^2

Note:

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ಎಸ್.ಎಂ. ರವೀಂದ್ರನಾಥ್ ಬೆಂಗಳೂರು.

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-03-06-02** **Date: 09-03-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains at 7th cross in Santosh Nagara and other roads in Ward no.13 Shettyhalli Sub division.
Agency	:	Sri. Nischal .K Lakshman, No.3667, 5th cross, 'B' block, Gayatrinagara, Bengaluru-21
Customer's Reference	:	EE/DD/WO/246/17-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	06-03-18
Sample ID No	:	2018-03-06-02 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	06-03-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	374	374	2.5	97.5	90-100
3	20 mm	5728	6102	40.7	59.3	30-70
4	10 mm	4773	10875	72.5	27.5	10-35
5	4.75 mm	3464	14339	95.6	4.4	0-5
6	Pan	661	15000	100.0	0	---

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ಬಾಪೂಜಿನಗರ ಮೆಯಿನ್
ಬಿಬಿಎಂಪಿ ಬೆಂಗಳೂರು ದಕ್ಷಿಣ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-03-06-02** **Date: 09-03-18**

Sample ID No : 2018-03-06-02 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**10.9**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**12.6**	
3	Specific Gravity	**2.68**	–
4	Bulk Density(Loose) (Kg/l)	**1.53**	–
5	Bulk Density(Compacted) (Kg/l)	**1.57**	–
6	Water Absorption(%)	**0.2**	–

Note:

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ಮಲ್ಲೇಶ್ವರಂ, ಬೆಂಗಳೂರು.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-03-06-02** **Date: 09-03-18**

Customer : Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.

Address : Shettyhalli Sub division, BBMP, Bangalore.

Project Name : Construction of RCC drains at 7th cross in Santosh Nagara and other roads in Ward no.13 Shettyhalli Sub division.

Agency : Sri. Nischal .K Lakshman, No.3667, 5th cross, 'B' block, Gayatrinagara, Bengaluru-21

Customer's Reference : EE/DD/WO/246/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-03-18

Sample ID No : 2018-03-06-02 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 06-03-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	48	48	4.8	95.2	90-100	90-100	90-100	95-100
3	2.36 mm	184	232	23.2	76.8	60-95	75-100	85-100	95-100
4	1.18 mm	208	440	44.0	56.0	30-70	55-90	75-100	90-100
5	600 micron	168	608	60.8	39.2	15-34	35-59	60-79	80-100
6	300 micron	217	825	82.5	17.5	5-20	8-30	12-40	15-50
7	150 micron	109	934	93.4	6.6	0-10	0-10	0-10	0-15
8	Pan	66	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಸಂ.20, ಮುಖ್ಯ ರಸ್ತೆ, ಗಂಗಾಧರನಾಥ, ಬೆಂಗಳೂರು.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-03-06-02** **Date: 09-03-18**

Sample ID No : 2018-03-06-02 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.68	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	5.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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ಲೆಲ್ಲಿಕಳ್ಳ ಉಪವಿಭಾಗ, ಬಾಷ್ಪಪಥ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಐ. ರಸ್ತೆ, ಮಲ್ಲೇಶ್ವರಂ, ಬೆಂಗಳೂರು.

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-03-06-02** **Date: 08-03-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains at 7th cross in Santosh Nagara and other roads in Ward no.13 Shettyhalli Sub division.
Agency	:	Sri. Nischal .K Lakshman, No.3667, 5th cross, 'B' block, Gayatrinagara, Bengaluru-21
Customer's Reference	:	EE/DD/WO/246/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-18
Sample ID No	:	2018-03-06-02 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	07-03-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	543	662	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.615	565	677	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.887	583	670	19.0%	Satisfactory	Satisfactory

Note:

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